



OPERATING INSTRUCTIONS FOR MODELS 6521 AND 6536 VOLUME PUMPS

6521
6536

1. DESCRIPTION

These Alemite Bucket Pumps are designed for volume high pressure delivery of lubricant directly into bearings equipped with grease fittings. They will dispense all types of pressure gun grease and gear lubricants that seek their own level. Container is 35-pound capacity. These pumps, equipped with hose, are commonly used for lubrication of tractors, farm implements, contractor equipment, trucks, industrial machinery, etc.



FIGURE 1 - MODEL 6536-C VOLUME PUMP

MODELS OF BUCKET PUMPS

Standard Units	With Leakproof Cover	Description
6536	6521	Pump only (for use with Giant Button Head Hose)
6536-B	6521-B	Pump only (with universal hose clip)
6536-C		6536-B Pump with 6617-G 5-1/2 ft. Hydraulic Hose

2. PRINCIPLES OF OPERATION (Figs. 2 and 3)

Squeezing latch release (A) closes the port (B) at the release valve. (The function of the pressure release valve is to relieve pressure in the hose to permit the hose coupling to be easily removed

from the fitting.) On the down stroke (Fig. 2) of the handle, the piston (C) travels upward in the tube. This action creates suction which draws lubricant above the flapper valve (D).

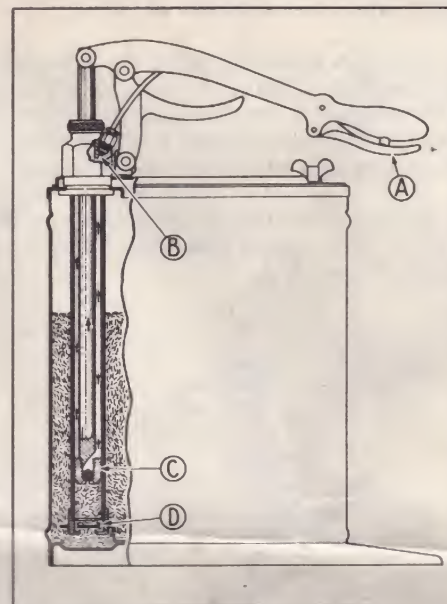


Figure 2 - Downstroke of Handle

The upstroke of the handle causes the piston to travel downward through the tube as shown in Fig. 3. This action forces the flapper valve to close, thus trapping the lubricant. Lubricant pressure forces the ball (E) off its seat allowing the lubricant to flow upward through the piston. Therefore, continuous pumping forces the lubricant out through the hose assembly.

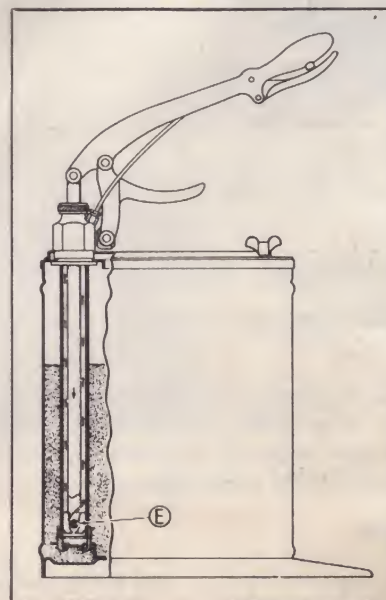


Figure 3 - Upstroke of Handle

OPERATING and SERVICE INSTRUCTIONS

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3. OPERATING INSTRUCTIONS

A. TO PREPARE FOR USE

(1) Attach hose to pump outlet (3/8" female pipe thread.)

(2) Fill lubricant container of pump.

(a) The pump can be filled by pouring the lubricant into the container or by using a transfer pump. Do not use a wooden paddle as there is danger of splinters and foreign matter getting into the lubricant, which might clog up the pump.

(b) Loosen thumb screw and pull cover to one side (Fig. 4). (For Model 6521 loosen two screws and remove cover.)



Figure 4 - Pump with Cover Open

(c) Fill container with CLEAN lubricant.

(d) Close container cover and tighten thumb screw.

(e) Tap the bottom of the container against the ground. This settles the lubricant, forces out air pockets and helps the lubricant to work itself around the bottom of pump tube.

B. TO USE

(1) Clean grease fitting with cloth and attach hose coupling to fitting.

(2) Grasp handle and latch as shown in figure 5. Place one foot on foot rest and operate lever up and down until bearing is lubricated.



Figure 5 - Grasping Handle and Latch

(NOTE - If latch is not pressed against handle when operating, no pressure can be developed.) (Breather cap on Model 6521 must be loosened before operating.)

(3) If tight bearing requires pressure to open, bring lever down near bottom of the stroke and lift using a little force.

(4) After bearing is lubricated release latch and push handle down. Releasing the latch relieves pressure in hose.

(5) Remove coupling from fitting.

(6) Connect coupling to fitting or clip on top of pump container. This stores hose out of way so the pump can be carried easily.

4. SERVICE INSTRUCTIONS

A. IF GUN FAILS TO BUILD UP PRESSURE AND/OR DELIVER LUBRICANT.

(1) Check to make sure that container is not empty, and that lubricant is not channeled around foot valve allowing air to enter pump.

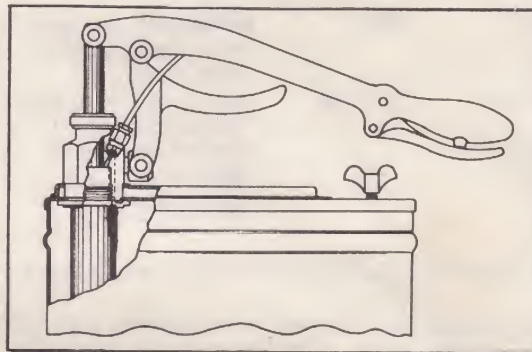


Figure 6 - Leakage at Release Valve



(2) Check the operation of the latch by opening the cover and operating the handle with the latch lever in operating position. If a flow of lubricant is noted along the side of the tube (A" Fig. 6) the release valve is not closing. In this case disassemble as shown in figure 7. Clean the ball and seat with solvent. Reassemble latch. (Model 6521 has no release valve ball - clean seat only.)

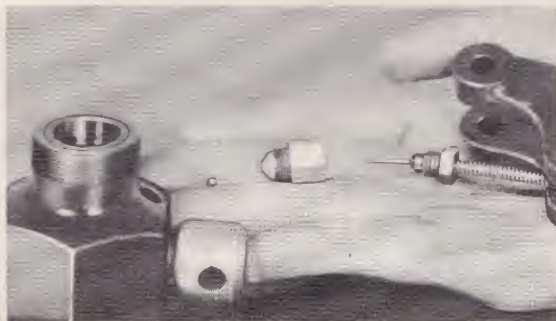


Figure 7 - Release Valve Disassembled

(3) Foreign material such as pebbles, rocks, grain, dirt, etc., will cause the pump valves to become inoperative. This condition necessitates the cleaning of the pump. Cleaning can often be done by removing the lubricant and working a solvent such as kerosene through the pump. If this fails, the following procedure should be observed to clean pump:



Figure 8 - Removing Pump Tube

(a) Remove the pump from the container by unscrewing the tube from the head of the pump. This is done by wedging a pipe wrench on the tube and turning the entire head and handle assembly counter-clockwise as shown in fig. 8. After tube is loose it will unscrew easily. (To remove 6521 pump assembly, unscrew three hex. head screws. Be careful not to lose tiny locating ball and spring in

head of pump. Not necessary to remove tube from the head of Model 6521.)

(b) Remove cotter pin and pull out pin holding handle to rod (Fig. 9). (Cover and head assembly can now be removed (Fig. 10). This applies to 6536 only.)



Figure 9 - Removing Pin



Figure 10 - Removing Cover and Handle Assembly

(c) Remove half moon washer (6536 only) (Fig. 11) and lift tube and rod assembly out of container.



SERVICE INSTRUCTIONS



Figure 11 - Removing Half Moon Washer

(d) Remove foot valve by placing tube in a vice and unscrewing the cap (Fig. 12). Piston and rod assembly will now slip out of bottom of tube. Remove piston from rod and clean ball check and seat. Dirt around the valve is often the cause of no pressure. (Caution: Do not mar surface of the piston)



Figure 12 - Removing Foot Valve

(e) Reassemble pump by reversing above procedure. Be sure half moon washer (6536 only) is correctly positioned so that it does not cover release valve opening ("A" fig. 6).

B. IF GREASE LEAKS AT PACKINGNUT NEAR TOP OF ROD

(1) Replace piston rod packing (Fig. 13).

C. IF EXCESSIVE GREASE LEAKAGE OCCURS BETWEEN COUPLING AND FITTING

(1) Check fitting. A worn or battered fitting may cause a leak. If defective, replace fitting.

(2) Disassemble coupling (see parts illustrations of 6304-B, G-53768 and G-304300). Clean and examine parts for wear. Replace defective sealing washers, jaws, etc.

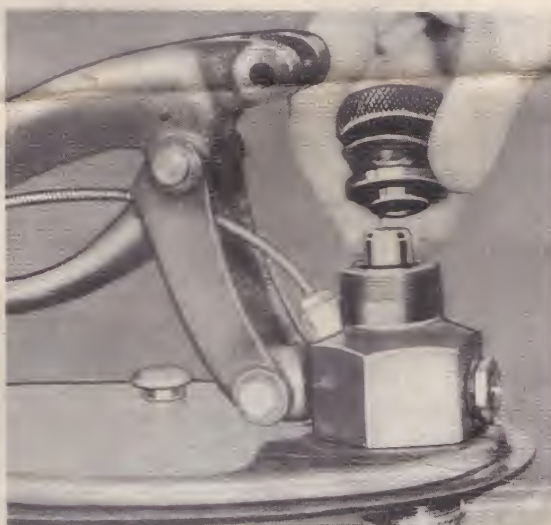


Figure 13 - Replacing Piston Rod Packing

For parts list on Models 6521 and 6536 Volume Pumps, see Form SER 3-6536.

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